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PATENT

Case Docket No. TRIPEP.056A

Date: May 18, 2004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Matti Sällberg  
Appl. No. : 10/773,628  
Filed : February 5, 2004  
For : GLYCOSYLATED  
SPECIFICITY EXCHANGERS  
Examiner : Unassigned  
Group Art Unit : Unassigned

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

May 18, 2004

(Date)

  
Eric S. Furman, Ph.D., Reg. No. 45,664

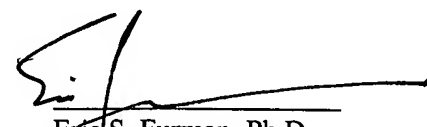
## TRANSMITTAL LETTER

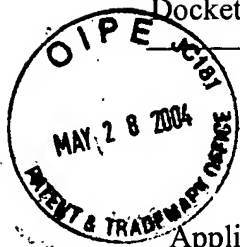
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with one hundred seventy-five (175), which are also enclosed in two boxes. Box one includes the U.S. and Foreign patents listed on the form PTO-1449 and box two includes the articles listed on the form PTO-1449.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

  
Eric S. Furman, Ph.D.  
Registration No. 45,664  
Attorney of Record  
Customer No. 20,995  
(619) 235-8550



## INFORMATION DISCLOSURE STATEMENT

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Dear Sir:


Enclosed is form PTO-1449 listing one hundred seventy-five (175) references that are also enclosed in two boxes. Box one includes the U.S. and Foreign patents listed on the form PTO-1449, and box two includes the articles listed on the form PTO-1449.

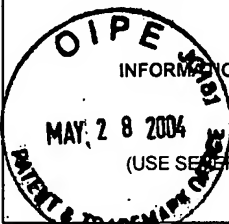
This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 5/18/04

By:   
Eric S. Furman, Ph.D.  
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Customer No. 20,995  
(619) 235-8550

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. TRIPEP.056A	APPLICATION NO. 10/773,628
	APPLICANT Matti Sällberg	
	FILING DATE February 5, 2004	GROUP Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	2004/0001853	01/01/04	George et al.			
	2.	2003/0021789A1	01/30/03	Xu et al.			
	3.	2003/0044418 A1	03/06/03	Davis et al.			
	4.	2002/0025513 A1	02/28/02	Sällberg			
	5.	2002/0058247 A1	05/16/02	Sällberg			
	6.	4,169,138	09/25/79	Jonsson			
	7.	4,376,110	03/08/83	David et al.			
	8.	4,471,058	09/11/84	Smith et al.			
	9.	4,486,530	12/04/84	David et al.			
	10.	4,589,881	05/20/86	Pierschbacher et al.			
	11.	4,946,778	08/07/90	Ladner et al.			
	12.	5,091,513	02/25/92	Huston et al.			
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	19.	5,440,014	08/08/95	Hook et al.			
	20.	5,561,049	10/01/96	Vold et al.			
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	24.	5,583,042	12/10/96	Roth			
	25.	5,601,830	02/11/97	Su et al.			
	26.	5,627,263	05/06/97	Ruoslahti et al.			
	27.	5,652,217	07/29/97	Hook et al.			

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	28.	5,700,928	12/23/97	Hodgson et al.			
	29.	5,766,857	06/16/98	Ruoslahti et al.			
	30.	5,766,591	06/16/98	Brown			
	31.	5,770,208	06/23/98	Fattom et al.			
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	34.	5,789,549	08/04/98	Hook et al.			
	35.	5,840,846	11/24/98	Hook et al.			
	36.	5,843,774	12/01/98	Ginsberg			
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	41.	5,929,220	07/27/99	Tong et al.			
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	46.	6,008,341	12/28/99	Foster et al.			
	47.	6,030,613	02/29/00	Blumberg, et al.			
	48.	6,040,137	03/21/00	Sällberg			
	49.	6,046,040	04/04/00	Nishiguchi et al.			
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	53.	6,086,895	07/11/00	Hook et al.			
	54.	6,087,330	07/11/00	Kogan et al.			

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	55.	6,090,388	07/18/00	Wang			
	56.	6,090,944	07/18/00	Hutchinson			
	57.	6,093,539	06/25/00	Maddon et al.			
	58.	6,245,895	06/12/01	Sällberg			
	59.	6,303,120	10/16/01	Danishefsky et al.			
	60.	6,417,324	07/09/02	Sällberg			
	61.	6,458,937	10/01/02	Bertozzi et al.			
	62.	6,469,143	10/22/02	Sällberg			
	63.	6,485,726 B1	11/26/02	Blumberg, et al.			
	64.	6,660,842	12/09/03	Sällberg			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	65.	0 182 546 A2	05/28/86	EPO				
	66.	0 508 427 A	10/14/92	EPO				
	67.	WO 02/24887	03/28/02	WIPO				
	68.	WO 01/81421	11/01/01	WIPO				
	69.	WO 00/66621	11/09/00	WIPO				
	70.	WO 00/26385 A	05/11/00	PCT				
	71.	WO 99/61041 A	12/02/99	PCT				
	72.	WO 99/27109	06/3/99	PCT				
	73.	WO 98/31389	07/23/98	PCT				
	74.	WO 98/03543	01/29/98	WIPO				
	75.	WO 95/22249 A	08/24/95	PCT				
	76.	WO 95/29938	11/95	PCT				
	77.	WO 95/08577	03/30/95	WIPO				

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FOREIGN PATENT DOCUMENTS								
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							YES	NO
	78.	WO 94/13804	06/23/94	WIPO				
	79.	WO 93/17044	09/02/93	PCT				
	80.	WO 93/15210	08/05/93	WIPO				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	81.	Barbas et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci. USA</i> , 88:7978-7982, (1991).
	82.	Bianchi, et al., "Affinity Purification of a Difficult-Sequence Protein: Implications for the Inclusion of Capping in Synthetic Protocols." <i>Int. J. Pept. Protein Res.</i> , 42(1):93-96, July 1993.
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	84.	Bichko et al., "Epitopes recognized by antibodies to denatured core protein of hepatitis B virus," <i>Mol. Immunol.</i> , 30(3):221-231, (1993).
	85.	Brett et al., "The invasins protein of <i>Yersinia</i> spp. provides co-stimulatory activity to human T cells through interaction with beta 1 integrins," <i>Eur. J. Immunol.</i> , 23(7):1608-1614 (1993).
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	89.	Cohen, J, et al., "Ligand binding to the cell surface receptor for reovirus type 3 stimulates galactocerebroside expression by developing oligodendrocytes," <i>Proc Natl Acad Sci USA</i> , 87(13):4922-4926 (1990).
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	91.	Database Genseq 'Online! July 1, 1993, Cytel Corp: "Cytotoxic T-lymphocyte inducing peptide 802.03." XP002183675, Accession AAR33488.
	92.	Database Genseq 'Online! January 8, 1993, Clonatec SA: "Hepatitis B virus HBc antigen II", XP002183674, Accession AAR25272 (published in EP494825).
	93.	Database Genseq 'Online! July 31, 2000, Yeda Res & Dev Co Ltd: "Murine anti-Pab-421 IDI-1 mAb heavy chain CDR based Peptide IDI-H1", XP002183676, Accession AAY70799 (published in WO0023082).
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	95.	Database Patent_PRT 'Online! March 21, 2001, Eurodiagnostica AB: "Sequence 9 from Patent WO0116163", XP002183677, Accession AX 090806.
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	98.	Felding-Habermann et al., "Role of $\beta$ 3 Integrins in Melanoma Cell Adhesion to Activated Platelets under Flow," <i>J. Biol. Chem.</i> , 271(10):5892-5900 (1996).
	99.	Flock, "Extracellular-Matrix-Binding Proteins as Targets for the Prevention of Staphylococcus Aureus Infections," (1999) <i>Molecular Medicine Today</i> , Vol. 5 pp 532-537.
	100.	Ganem, "Hepadnaviridae and Their Replication," <i>Fields Virology</i> , Third Ed., Ch. 85, pp. 2703-2705, 1996.
	101.	GenCore sequence alignment of SEQ ID NO: 16 with the L-chain variable region of plasminogen activator antibody of JP61172900-A, Ashi Chemical Ind. KK. 4/8/1986, ID NO: p. 61027.
	102.	GLYCOPROTEINS, <a href="http://www.cs.stedwards.edu/chem/Chemistry/CHEM43/CHEM43/Glycoproteins/Glycopro">http://www.cs.stedwards.edu/chem/Chemistry/CHEM43/CHEM43/Glycoproteins/Glycopro</a> .
	103.	GLYCOPROTEINS, <a href="http://www.users.rcn.com/jkimball.ma.ultrnet/BiologyPages/G/Glycoproteins.html">http://www.users.rcn.com/jkimball.ma.ultrnet/BiologyPages/G/Glycoproteins.html</a> .
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	105.	Greenspan et al., "Defining epitopes: It's not as easy as it seems," <i>Nature Biotechnology</i> , Vol. 17, pp. 936-937, October 1999.
	106.	Haseltine "Replication and Pathogenesis of the AIDS Virus," <i>Journal of Acquired Immune Deficiency Syndromes</i> , 1(3):217-240 and 231-236, (1988).
	107.	Henschen A. et al., "Preliminary Note on the Completion of the $\beta$ -Chain Sequence", (1997) <i>Z. Physiol. Chem.</i> , 358:1643-1646.
	108.	Holliger et al., "'Diabodies': Small Bivalent and Bispecific Antibody Fragments," <i>Proc Natl. Acad. Sci. USA</i> , 90:6444-6448, July 1993.
	109.	Huse et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in Phage Lambda," <i>Science</i> , 246:1275-1281 (1989).
	110.	Jin et al., "Expression, Isolation, and Characterization of the Hepatitis C Virus ATPase/RNA Helicase," <i>Archives of Biochemistry and Biophysics</i> , 323:47-53 (1995).
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	113.	Korba and Milman, "A cell culture assay for compounds which inhibit hepatitis B virus replication," <i>Antiviral. Res.</i> , 15(3):217-228 (1991).
	114.	Kreitman et al., "Immunotoxins for targeted cancer therapy," <i>Advanced Drug Delivery Reviews</i> , 31:53-88 (1998).
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	119.	Lew et al., "Site-directed immune responses in DNA vaccines encoding ligand-antigen fusions," <i>Vaccine</i> , England, Vol. 18, No. 16, pp. 1681-1685 (2000).

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	120.	Li et al., "Adenovirus-mediated expression of pig $\alpha(1,3)$ galactosyltransferase reconstructs Gal $\alpha(1, 3)$ Gal epitope on the surface of human tumor cells," <i>Cell Research</i> , 11(2):116-124 (2001), <a href="http://www.cell-research.com/20012/01-2-xl.html">http://www.cell-research.com/20012/01-2-xl.html</a> .
	121.	Lottspeich F. et al., "Preliminary Note on the Completion of the $\gamma$ -Chain Sequence," (1977) <i>Z. Physiol. Chem.</i> , 358:935-938.
	122.	Lowman HB, "Bacteriophage display and discovery of peptide leads for drug development," <i>Annu. Rev. Biophys. Biomol. Struct.</i> , 26:401-424 (1997).
	123.	Machida A, et al., "Antigenic sites on the arginine-rich carboxyl-terminal domain of the capsid protein of hepatitis B virus distinct from hepatitis B core or e antigen," <i>Mol. Immunol.</i> , 26(4):431-421 (1989).
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	133.	Owens et al., "Mapping the Collagen-Binding Site of Human Fibronectin by Expression in Escherichia Coli," <i>Embo Journal</i> , IRL Press, Eynsham, GB, Vol. 5, No. 11, pp. 2825-2830 (1986).
	134.	Pei et al., "Functional Studies of a Fibrinogen Binding Protein from Staphylococcus Epidermidis," (1999) <i>Infection and Immunity</i> , p 4525-4530.
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	137.	Randall et al., "High-throughput Chemistry toward Complex Carbohydrates and Carbohydrate-like Compounds <sup>a</sup> ," <a href="http://www.bentham.org/sample-issues/cchits5-2/arya/arya-ms.htm">http://www.bentham.org/sample-issues/cchits5-2/arya/arya-ms.htm</a> .
	138.	Roivanen et al., "Antigenic regions of poliovirus type 3/Sabin capsid proteins recognized by human sera in the peptide scanning technique," <i>Virology</i> , 180:99-107 (1991).
	139.	Rudd et al., "Glycosylation and the Immune System," <i>Science</i> , 291:2370-2376 (2001) <a href="http://sciencemag.org">http://sciencemag.org</a> .
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Matti Sällberg	
		FILING DATE February 5, 2004	GROUP Unassigned

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